

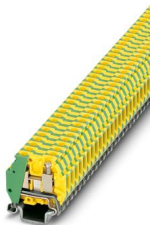
# MT 1,5-PE - Ground terminal



3100318

<https://www.phoenixcontact.com/us/products/3100318>

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Ground terminal, number of connections: 2, connection method: Screw connection, 1 level, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 15, color: green-yellow

## Your advantages

- Low contact resistance
- Corrosion-free terminal points
- Green-yellow housing
- Captive terminal block screws

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3100318             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE12                |
| Product key                          | BE1261              |
| Catalog page                         | Page 556 (C-1-2019) |
| GTIN                                 | 4017918099268       |
| Weight per piece (including packing) | 2.88 g              |
| Weight per piece (excluding packing) | 2.693 g             |
| Customs tariff number                | 85369010            |
| Country of origin                    | TR                  |

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## Technical data

### Notes

|         |                                                                                                                                        |
|---------|----------------------------------------------------------------------------------------------------------------------------------------|
| General | When aligning with a feed-through terminal block of the same shape, an end cover must be interposed for insulation voltages of > 320 V |
|---------|----------------------------------------------------------------------------------------------------------------------------------------|

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Number of connections | 2                     |
| Number of rows        | 1                     |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 04 |
|------------------|----|

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 4 kV   |
| Maximum power dissipation for nominal condition | 0.56 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Grounding foot                  | Yes                 |
| Number of connections per level | 2                   |
| Nominal cross section           | 1.5 mm <sup>2</sup> |

### 1 level

|                                                                   |                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------|
| Screw thread                                                      | M2                                                             |
| Note                                                              | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque                                                 | 0.22 ... 0.25 Nm                                               |
| Stripping length                                                  | 6 mm                                                           |
| Internal cylindrical gage                                         | A1                                                             |
| Connection in acc. with standard                                  | IEC 60947-7-2                                                  |
| Conductor cross section rigid                                     | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                   |
| Cross section AWG                                                 | 26 ... 16 (converted acc. to IEC)                              |
| Conductor cross section flexible                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                   |
| Conductor cross section, flexible [AWG]                           | 26 ... 16 (converted acc. to IEC)                              |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>                  |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>                  |

### Dimensions

|                |         |
|----------------|---------|
| Width          | 4.2 mm  |
| Height         | 22 mm   |
| Depth on NS 15 | 23.5 mm |

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## Material specifications

|                                                                         |              |
|-------------------------------------------------------------------------|--------------|
| Color                                                                   | green-yellow |
| Flammability rating according to UL 94                                  | V0           |
| Insulating material group                                               | I            |
| Insulating material                                                     | PA           |
| Static insulating material application in cold                          | -60 °C       |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C       |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C       |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3  |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg     |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed       |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed       |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed       |

## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)          | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)                                                     |
| Ambient temperature (assembly)           | -5 °C ... 70 °C                                                                                                              |
| Ambient temperature (actuation)          | -5 °C ... 70 °C                                                                                                              |
| Permissible humidity (operation)         | 20 % ... 90 %                                                                                                                |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                                                                                |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-2 |
|----------------------------------|---------------|

## Mounting

|               |       |
|---------------|-------|
| Mounting type | NS 15 |
| Thread type   | ()    |

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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3100318>

### DNV

Approval ID: TAE00001CT



### CSA

Approval ID: 13631

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | -                     | -                     | 28 - 14           | -                           |



### cULus Recognized

Approval ID: E60425

|             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B | -                     | -                     | 30 - 14           | -                           |
| Use group F | -                     | -                     | 30 - 14           | -                           |
| Use group D | -                     | -                     | 30 - 14           | -                           |

### CCA

Approval ID: NTR-NL 4243

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | -                     | -                     | -                 | - 1.5                       |



### LR

Approval ID: LR2041789TA-02



### BV

Approval ID: 07774/E0 BV



### EAC Ex

Approval ID: RU C-DE.HA91.B.00066

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141141 |
| ECLASS-13.0 | 27250103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000901 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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